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Terms	Documents
precursor adj6 hinterleukin adj3 18	0

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Search History

DATE: Monday, June 23, 2003 Printable Copy Create Case

S t Name side by side	Query	Hit Count	Set Name result set
DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR			
L3	precursor adj6 hinterleukin adj3 18	0	L3
DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L2	(prohIL adj3 18 or precursor adj3 hIL adj2 18)	0	L2
L1	(prohIL adj 18 or precursor adj hIL adj 18)	0	L1

END OF SEARCH HISTORY

6/3,AB/1 (Item 1 from file: 5)
11177918 **Biosis No.**: 199799799063

Involvement of caspase-1 and caspase-3 in the production and processing of mature human interleukin 18 in monocytic THP.1 cells.

Author: Akita Kenji(a); Ohtsuki Takashi; Nukada Yoshiyuki; Tanimoto Tadao; Namba Motoshi; Okura Takanori; Takakura-Yamamoto Rohko; Torigoe Kakuji; Gu Yong; Su Michael S-S; Fujii Mitsukiyo; Satoh-Itoh Michiyo; Yamamoto Kouzo; Kohno Keizo; Ikeda Masao; Kurimoto Masashi
Author Address: (a)Fujisaki Inst., Hayashibara Biochem. Lab. Inc., 675-1 Fujisaki, Okayama 702**Japan
Journal: Journal of Biological Chemistry 272 (42): p 26595-26603 1997
ISSN: 0021-9258
R cord Type: Abstract
Language: English

Abstract: Recently, human interleukin 18 (hIL-18) cDNA was cloned, and the recombinant protein with a tentatively assigned NH-2-terminal amino acid sequence was generated. However, natural hIL-18 has not yet been isolated, and its cellular processing is therefore still unclear. To clarify this, we purified natural hIL-18 from the cytosolic extract of monocytic THP.1 cells. Natural hIL-18 exhibited a molecular mass of 18.2 kDa, and the NH-2-terminal amino acid was Tyr-37. Biological activities of the purified protein were identical to those of recombinant hIL-18 with respect to the enhancement of natural killer cell cytotoxicity and interferon-gamma production by human peripheral blood mononuclear cells. We also found two precursor hIL-18 (prohIL-18)-processing activities in the cytosol of THP.1 cells. These activities were blocked separately by the caspase inhibitors Ac-YVAD-CHO and Ac-DEVD-CHO. Further analyses of the partially purified enzymes revealed that one is caspase-1, which cleaves prohIL-18 at the Asp-36-Tyr-37 site to generate the mature hIL-18, and the other is caspase-3, which cleaves both precursor and mature hIL-18 at Asp-71-Ser-72 and Asp-76-Asn-77 to generate biologically inactive products. These results suggest that the production and processing of natural hIL-18 are regulated by two processing enzymes, caspase-1 and caspase-3, in THP.1 cells.

1997

6/3,AB/2 (Item 1 from file: 349)
00575924
IL-1 RELATED POLYPEPTIDES
POLYPEPTIDES APPARENTES A IL-1

Patent Applicant/Assignee:
GENENTECH INC,
GODDARD Audrey,
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Inventor(s):
GODDARD Audrey,
PAN James,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200039297 A2 20000706 (WO 0039297)
Application: WO 99US30720 19991222 (PCT/ WO US9930720)
Priority Application: US 98113430 19981223; US 99116843 19990122; US 99129122 19990413
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 70574

English Abstract
The present invention is directed to novel polypeptides having homology to the IL-1-like family of proteins and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention, and methods for producing the polypeptides of the present invention.

French Abstract
L'invention concerne des nouveaux polypeptides homologue de la famille de proteines du type IL-1, et des molecules d'acide nucleique codant lesdits polypeptides. Elle porte egalement sur des vecteurs et des cellules hotes comprenant lesdites

sequences nucleotidiques, sur des molecules polypeptidiques chimeres comprenant les polypeptides de l'invention, fusionnes a des sequences polypeptidiques heterologues, sur des anticorps qui se lient aux polypeptides de l'invention et sur des procedes de production desdits polypeptides.

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S2	RD (unique items)	1723	Display
S3	S2 AND (PROHIL(2N)18 OR PRECURSOR(5N)HIL(2N)18)	0	Display
S4	PRO(W)HIL(2W)18	0	Display
S5	PRECURSOR(3N)HIL(2N)18	7	Display
S6	RD (unique items)	2	Display

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